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REMARKS

The foregoing amendments are made to insert the sequence identification numbers into the specification. No new matter has been added.

Respectfully submitted,

Date: 7/17/02

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Version with markings to show changes made

In the specification:

Paragraph beginning on page 31, line 22 has been amended as follows: Figure 2 illustrates the N6 and N10 constructs and their respective DNA and amino acid sequences (SEQ ID NOS:13-16). The histidine tag, the flag peptide, the Fxa cutting site and the CD4+ T cell epitopes are underlined.

Paragraph beginning on page 32, line 20 has been amended as follows: Figure 7 is a schematic representation of N11 construct and its respective DNA and protein sequence (SEQ ID NOS:19-20). The hexahistidine tag, the flag peptide, the FXa cutting site, and the CD4+ T cell epitopes are underlined.

Paragraph beginning on page 32, line 23 has been amended as follows: Figure 8 is a schematic representation of N19 construct and its respective DNA and protein sequence (SEQ ID NOS:17-18). The hexahistidine tag, the flag peptide, the FXa cutting site. and the CD4+ T cell epitopes are underlined.

Table on page 36 has been amended as follows:

| T cell epitope | Amino acid position | Amino acid sequence | SEQ ID NO: | References |
|-------------------|---------------------|---------------------------|------------------|---|
| P23TT | 1084-1099 | VSIDKFRIFCKANPK | 1 | Demotz et al. 1993 Eur.J Immunol 23: 425 |
| P32TT | 1174-1189 | LKFIIKRYTPNNEIDS | 2 | Demotz et al. 1993 Eur J Immunol 23: 425 |
| P21TT | 1064-1079 | IREDNNITLKLDRCNN | <u>3</u> | Dr. Lanzavecchia, pers. comm. |
| PF T3 | 380-398 | EKKIAKMEKASSVFN VVN | 4 | Hammer et al. 1993 Cell 74: I97 |
| P30TT | 947-967 | FNNFTVSFWLRVPKV SASHLE | <u>5</u> | Demotz et al. 1993 Eur.J Immunol 23: 425 |
| P2TT | 830-843 | QYIKANSKFIGITE | <u>6</u> | Demotz et al. 1993 Eur.J Immunol 23: 425 |

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| НА | 307-319 | PKYVKQNTLKLAT | 7 | Alexander et al. 1994 Immunity 1: 751 |
|-----------------|---------|--------------------------|-----------|--|
| HBVnc | 50-69 | PHHTALRQAILCWGE LMTLA | <u>8</u> | Alexander et al. 1994 Immunity 1: 751 |
| HBsAg | 19-33 | FFLLTRILTIPQSLD | 9 | Greenstein et al. 192 J Immunol 148: 3970 |
| MT | 17-31 | YSGPLKAEIAQRLEDV | <u>10</u> | Alexander et al. 1994 Immunity 1: 751 |
| HSP70 | 408-427 | QPSVQIQVYQGEREIA SHNK | <u>11</u> | Adams et al. 1997 Infect Immun 65: 1061 |
| Flag peptide | | MDYKDDDD | <u>12</u> | |

Table I. CD4+ T cell epitopes inserted in the recombinant polyepitope carrier proteins.